Preliminary Amendment

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National Stage Entry of PCT/JP04/019661

Attorney Docket No.: Q95747

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- 1. (original): A control device for electric power steering apparatus which adopts a vector control system for applying an assist force of a motor to a steering system, characterized in that a phase delay according to an angular velocity is obtained, a corrected electric angle is calculated by adding the phase delay to an electric angle, and generation of a current command value in the vector control is compensated based on the corrected electric angle.
- 2. (original): A control device for electric power steering apparatus according to claim 1, wherein the phase delay includes a response delay of an electric current control.
- 3. (original): A control device for electric power steering apparatus according to claim 1, wherein the phase delay is obtained by a linear function of an offset and a gain.
- 4. (currently amended): A control device for electric power steering apparatus according to claim 1-or-2, wherein the corrected electric angle is limited to 0° to 360°.
- 5. (original): A control device for electric power steering apparatus which adopts a vector control system for applying an assist force of a motor to a steering system, characterized in that a first phase delay according to an angular velocity is obtained, a first corrected electric angle is calculated by adding the first phase delay to an electric angle, generation of a current command value in the vector control is compensated based on the first corrected electric angle, a second phase delay according to the angular velocity is obtained, a second corrected electric

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angle is calculated by adding the second phase delay to the electric angle, and a back EMF in the

vector control is compensated based on the second corrected electric angle.

6. (original): A control device for electric power steering apparatus according to claim

5, wherein the first phase delay and the second phase delay include a response delay of electric

current control.

7. (original): A control device for electric power steering apparatus according to claim

5, wherein the first phase delay and the second phase delay are obtained by a linear function of

an offset and a gain.

8. (currently amended): A control device for electric power steering apparatus

according to claim 5-or-6, wherein the first corrected electric angle and the second corrected

electric angle are limited to 0° to 360°.

A control device for electric power steering apparatus according to claim 9. (new):

42, wherein the corrected electric angle is limited to 0° to 360°.

A control device for electric power steering apparatus according to claim 10. (new):

6, wherein the first corrected electric angle and the second corrected electric angle are limited to

0° to 360°.

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